



State of Nevada  
Division of Environmental Protection  
Bureau of Corrective Actions

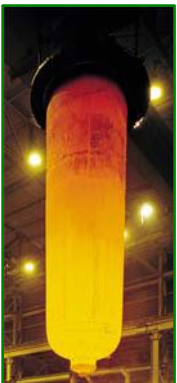
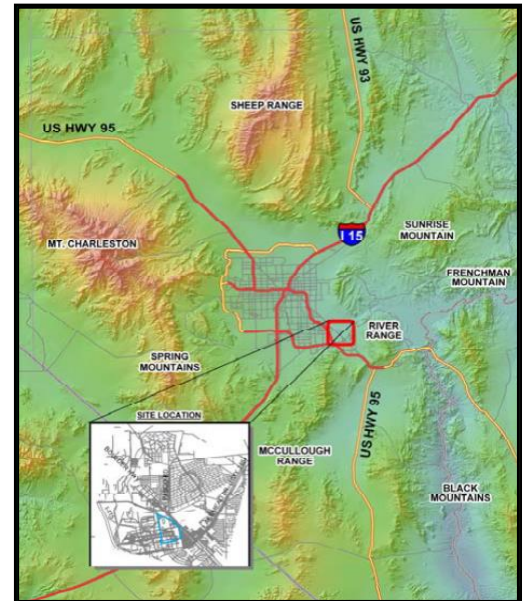


## TITANIUM METALS CORPORATION



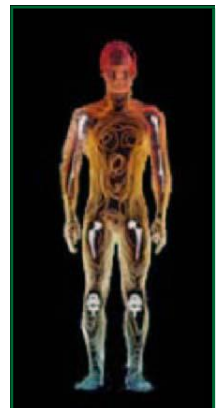
Titanium Metals Corporation (TIMET) is one of the world's largest producers of high quality titanium products for aerospace, industrial and consumer applications. Activities completed at the Henderson manufacturing facility include converting rutile ore into titanium sponge, ingot, slab, and mill products.

TIMET is head-quartered in Exton, Pennsylvania and has research, manufacturing, and distribution facilities worldwide.



### Titanium Production

TIMET is a recognized leader in titanium quality and technology producing 6,000 metric tons of titanium sponge per year. Titanium's unique combination of strength, weight, and corrosion resistance makes it ideal for critical applications. Because titanium is nearly half the weight of steel, the aerospace industry depends heavily upon titanium as a major component in engines, airframes, and landing gear. Titanium is also specified in hundreds of applications such as high-tech architectural material, deep-sea drilling operations, power generation, chemical processing, pollution control, sporting goods, medical instruments, and medical implants.



## **Environmental Investigations and Update of the Conceptual Site Model**

Historical sampling and analysis of groundwater from monitoring has revealed impacted groundwater. Groundwater impacts are believed to originate from non-TIMET sources located to the west of the facility as well as from historic practices.

During 2013-2015 investigations of environmental conditions at TIMET continued and the updated Conceptual Site Model (September 30, 2015) was approved by NDEP.

## **Remedial Action in the First Water-Bearing Zone (Completed March 2014)**

The remedial action to clean-up groundwater in the First Water-Bearing Zone was designed based on extensive analyses of remedial alternatives. Details can be found in the "Remedial Alternative Analysis for the First Water-Bearing Zone" report. The selected remedy consists of an underground barrier wall to prevent impacted groundwater from leaving the property. The barrier wall is 2410 feet in length and extends from the ground surface to a depth of approximately 60 feet. A line of groundwater extraction wells is located behind the barrier wall and pump groundwater to an above-ground treatment plant.



## **Cleanout of the HP-1 Pond (Completed August 2013)**

TIMET removed all sediment from the HP-1 Pond and disposed of the material off-site at a permitted facility. The existing liner was removed and replaced with a new liner system.

## **Remediation of the Beta & Northwest Ditch (Completed October 2013)**

The Beta & Northwest Ditch was a "common drainage ditch" that flowed across the northern portion of the BMI Complex. Remediation of the portion of the ditch located on TIMET property was completed during 2013. Approximately 57,000 tons of impacted soils were excavated and disposed off-site at a permitted facility.

## **Construction of the North Site Cover System (Completed November 2014)**

An engineered cover system including a geosynthetic clay liner (GCL) was placed over the northern portion of the site to prevent dust generation and erosion of site soils.

## **Construction of the S-18 Area Cap (Completed May 2016)**

Capping of the S-18 Landfill was completed during the Spring of 2016 in accordance with the approved plans and specifications by installation of a geosynthetic cover system, and placement of protective soil layers.

## **Upcoming Activities**

- Implementation of the SW-1 Pond Closure Program (scheduled for completion in 2018)
- Continued monitoring and maintenance of site remediation components
- Continued regular monitoring of groundwater conditions
- Continued investigation of site conditions
- Continued Collaboration with neighbors of the BMI Industrial Complex regarding issues of regional interest

Fact Sheet Revised April 2018

NDEP oversees all aspects of the environmental work at the facility. Additional information can be obtained from Grant Evenson (702-486-2850 ext. 241) at NDEP. Additional information related to the environmental work at the facility can be found at <http://ndep.nv.gov/bmi/timet.htm>